

C. Smith



RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/964,824C

ENTERED
DATE: 06/10/2003
TIME: 15:26:24 f.p

Input Set : N:\Crf4\06032003\I964824C.raw
Output Set: N:\CRF4\06102003\I964824C.raw

1 <110> APPLICANT: Horrigan, Stephen
2 <120> TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using
3 Signature Gene Sets
4 <130> FILE REFERENCE: 689290-73
C--> 5 <140> CURRENT APPLICATION NUMBER: US/09/964,824C
6 <141> CURRENT FILING DATE: 2001-09-27
7 <150> PRIOR APPLICATION NUMBER: US/60/236,033
8 <151> PRIOR FILING DATE: 2000-09-28
9 <150> PRIOR APPLICATION NUMBER: US/60/236,032
10 <151> PRIOR FILING DATE: 2000-09-28
11 <150> PRIOR APPLICATION NUMBER: US/60/236,028
12 <151> PRIOR FILING DATE: 2000-09-28
13 <160> NUMBER OF SEQ ID NOS: 583
14 <170> SOFTWARE: PatentIn version 3.0
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17 <211> LENGTH: 521
18 <212> TYPE: DNA
19 <213> ORGANISM: Homo sapiens
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21 <221> NAME/KEY: misc_feature
22 <222> LOCATION: (1)...(521)
23 <223> OTHER INFORMATION: n=a,t,g or c
24 <400> SEQUENCE: 1
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26 ggaacagtag acttctatttgc tcttcaatcc ctaatgtcct agtgagttatg tacccttatgg 120
27 agaaggcaga aatgacgtgg accaggactc cttacatgga gagtgtttta aaggcagttt 180
28 ttaaaaagcc cattttgtga aagaaaccag aaggctcgta attgctgtct gcactgtgg 240
W--> 29 ttctctgggg ggttggggag gggagtggat taaataaaaa gtttagaagg ccatagnata 300
30 aatatcgaaa tagtatgaat tttaatatat acttttaaag gggttaggca atgtataaaa 360
31 gatatgactg ctttcctttc atttctcatt aaattaaaaat tcccacaaaaa gtgcattggca 420
32 tcttttgaa acactgctaa tttaaagtt tggaaagggtt tatcttcata gccacaatct 480
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36 <211> LENGTH: 481
37 <212> TYPE: DNA
38 <213> ORGANISM: Homo sapiens
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42 taagtaatta atgaatgttgc tttttgtttc caaatacaat gaagtgtttt ttttatttagag 180
43 tccttggaa tcatctaagt tacaatacag aagagaatta aataaaatcgat atatgatttt 240
44 gtaatttagac actctatata tcacagttct ttgttaacct gggcatggaa cgtccctata 300
45 gcatatattt aaaaccatata attttttta aaaaaatttg agacatgggt tggttcttgg 360

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 PATENT APPLICATION: US/09/964,824C TIME: 15:26:24

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46      ctctaaat ta tttcccca tttcccttga atgttctcta ttggccatct tctggAACAT 420
47      taaaaaaaaa tcttgaAAACA aattcttcttG caatgatacG tatcacataAA acttgatATG 480
48      C 481
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53 <213> ORGANISM: Homo sapiens
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56      tagcagCCGG ccttcgggtc gggcgtcttC cccggctact gcccgttcaG ttcttccggT 120
57      gtggccacga gtcgggttgc acttctgtGA tccatcttca tttctaaAG atgcattcctG 180
58      acttatctcc acacttgcac actgaagaAT gcaacgtctt gattaacttG cttaaggAA 240
59      gtcacaaaaa tcacaacatt ctgaaatttt ttgggtatttG taatgtatGt gatcgggggt 300
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68      ggtgaggagg cggccaccagg cgtgcgggtc gtcaaggTgg tcctgggtgg cgacggcggc 120
69      tgcgggaaga cgtcgctgtC gatggtcttC gccgatgggg ctttccccGA gagctacacc 180
70      cccacgggtt ttgagcggtA catggtcaAC ctgcaagtGA aaggcaAAAC tgcacccctC 240
71      cacatctggg acacagcagg gcaagatgac tatgaccGCC tgcggcccct gttctaccct 300
72      gacgcccAGC tcctgctgtC ttgcttcgat gtcaccAGCC cgaacagCTt tgacaacatC 360
73      tttaaccggT ggtacccAGA agtgaatcat ttctgcaAGA agttaacccat catcgctgt 420
74      ggctgcaAGA ctgacctgcG caaggacAAA tcactggTGA acaagctccG aagaaacggA 480
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79      gctgctgagC tggctgggtC ggacccggTC cctaggctgt gaccggccGA ctccactgca 780
80      acagacgggc gccaccaaAG ccaggcccTG aggctggGA gtcctggact gagaaaggGG 840
81      gttcctgggc ccacctgctC tggtagggc tcgtccctgcG tgcccggaga atcactcgC 900
82      aaccctatG cccgggtcccG gaccgacatC ctggagccgc ctgtgcagcc tgatggggCC 960
83      tcgtggctgc tcccagggtC gcacctgcca ggacctaATG ttcttaggtc cctctggcca 1020
84      gaacccacac ccggcccccTT cccacctgtc atactggtaA ctgtaaacaAG aaaaacgaca 1080
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94 <223> OTHER INFORMATION: n=a,t,g or c
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PATENT APPLICATION: US/09/964,824C

DATE: 06/10/2003

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98  ccggctagat gagtgtcaga tgtacctggc acacgagcag gcgcggccaa gcgccaccgc 180
99  ttcatcaactg agaaggcggt cttctccgc tggccaaaga agaggccat cgtgtcgccc 240
100  catccgtcct ggaggactga gttagctccg tcgtcctgcc agccgcccatt cctgtgcgag 300
101  gcctccggaa tgtcccatcc caagccatca cactccacaa aaacattaa tttatggat 360
102  cctgcctcct gccacgtgct gggtggganc ttaaggttcc ttcccacccc attgtggcg 420
103  acatttggag ccattttcag gcttccattc cctgagtaat tcatggcat tttgggggtt 480
104  cancca 486

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110 <400> SEQUENCE: 6
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112  aggacttgtt ctgggacttg tcatcttggc tgctgtgtg actgccccaa ctctagagtc 120
113  catcaactat gactcagaaaa cctatgtgc caccttagaa gacctggata atttgtacaa 180
114  ctatgaaaac atacctgttg ataaagttga gattgaaata gccacagtaa tgccttcagg 240
115  gaacagagag ctccctcaactc caccggcaca gcctgagaag gcccaggaaag aggaagagga 300
116  ggaggaatct actcccaggc tgattgtatgg ctcttctccc caggagcctg aattcacagg 360
117  gggtctgggg ccacacacaa atgaagactt tccaaacctgt ctttgggtgtt cttgtataag 420
118  taccaccgtg tactgtgtt accatgtactt tgatgttatt cctccgctgc caaagaacac 480
119  cgcttatttc tattcccgct ttaacagaat taaaaagatc aacaaaaatg actttgcaag 540
120  cctaagtgtat ttaaaaagga ttgatctgac atcaaattta atatctgaga ttgatgaaga 600
121  tgcattccga aaactgcctc aacttcgaga gcttgcctg cgtgacaaca aaataaggca 660
122  gctcccagaa ttgccaacca ctcgacatt tattgtatatt agcaacaata gacttggaaag 720
123  gaaaggata aagcaagaag cattttaaaga catgtatgtat ctcctatcatc tgtacccac 780
124  tgataacaac ttggaccaca tcctctgc actcccagaa atctacgag cccttcac 840
125  ccagaataaac aacattctgg aaatgcacga agatacgttgc tgcaatggta aaaatttgc 900
126  ttatattcgt aaggacttag aggacattcg attggatggaa aacccttattt atctcagca 960
127  aactccacaa gcatacatgt gtctacctcg tctgcctgtt gggagcctg tctaatttca 1020
128  gataatggtt agcattacga tggtctactat aaataaaccat ttcttactgc tctctccaa 1080
129  aacaaaactc agcatgatac ttgagatttg tggtctgaga gatgtatgtatcataaaaa 1140
130  tacaattaaa aatgttataa tataatgaaa atgttagtaat ttaagaaaac accagatgag 1200
131  ttagaataa acctataaca ttacaaaaaa gagcaaaact aagtgtatgaa aaatattca 1260
132  cacatgttct tatacatgt gtatcttgc caagtttagt gatgtatgtat cctatatcat 1320
133  ttcaaattaa gtacataata aagtttttattt ttgaaatgaa cacttttagt attttgcca 1380
134  agatttagat gtttttattt aaacttttctt cttccctttt ttttactaa ggcattttt 1440
135  ttcccctaattt ccattaaaga gcatgaaaaaa aagaataaat gtatttgaaa aaaaaaaaaa 1500
136  aaaaaaaaaa aaaaaa 1515

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148  agcatgcctt acggagatct ggattcttacatcaactaaat gttttttttt aatcacatgt 120

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PATENT APPLICATION: US/09/964,824C

DATE: 06/10/2003

TIME: 15:26:24

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 Output Set: N:\CRF4\06102003\I964824C.raw

149	cgtgcttcat cccttattt aagaacagaa aattatgact actctacaag gtggataata	180
150	ttttggtacc tgtggctggc cacagccctg ttccctaaag ctgaattgtat agatttctct	240
151	ttgacttcca agacctagca gtataaaggc accttggaaat aaattgtttg tgcctggaaa	300
W--> 152	tgccaggagg gcaatagctt tgtaaattgg nttacatttt ttccttggaa tttttcttagg	360
153	gtcctagtgc ttccgaatca ttaatggca ttgtcgata tcctttaca ttcaattgc	420
154	aatccatgaa attacatttta gaagattctt agtacttaac ggtagtcttc ccatgaattt	480
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162 <222>	LOCATION: (1)...(416)	
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166	acattttaaa gtatataatt tgcatttcc accttctcaa tgccatgaa atattctagg	120
167	agactctata agataaccaa ttgattttctt actactccca aattttact ttgttaattt	180
168	aagaggaata ggcaaataga gtgtgtgtgg ttctgggtct ccctgcagga tgaagggggc	240
169	ctgcaaaatg ttcctactt ccattctagg tcattcagca aggtgccttc ctctggatgc	300
170	actgtctgtt tactttgcc atgttgcattt acataatggta ttctggccca ctttacacca	360
171	ttttgactgtt cagtaaaaga atggatgtt ggccatttc ttcttttattt aatacg	416
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174 <211>	LENGTH: 371	
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180	cagacgtggg gcaaagggtgt tccctgtcctt acccagccat tcctgggcctt gccccttagg	180
181	ggctcacagg gcccaggagt ccccagctca caggccagg catcaggcca ggcgcgctcg	240
182	gtgcacaccg cacctgtggta ggacctgggtt acactcagga gaccaagagc actggcggtt	300
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184	cccttcctgc c	371
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192	gcttaggacggcgggtgca atccctcgaa gggaggtctca gcgaccatgg gggacaccat	120
193	ccacatgcag gcggttagttt gggcctcgcc agcgccttc tggggtgccg ggggtccctg	180
194	ttgcccctca gtgccctgtg ggcgaagggtc tgcaggggcc ggctgttacc gctgaggctc	240
195	tggaaatctt gatggaggattcttgcaggatctca ggaggtctca ggaggtgcattt ctgtggggag	300
196	gtgtatattgtt gggccggc aatgaggatc caggtgacag ttcggagca gggccgggtg	360
197	ctgagagagc cctgataggtt gatgaaaccgg aagattcagg gaacaggagc tccaggctc	419
199 <210>	SEQ ID NO: 11	
200 <211>	LENGTH: 270	
201 <212>	TYPE: DNA	

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/964,824C

DATE: 06/10/2003

TIME: 15:26:24

Input Set : N:\Crf4\06032003\I964824C.raw
 Output Set: N:\CRF4\06102003\I964824C.raw

202 <213> ORGANISM: Homo sapiens
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 206 tttacaaata accagggggc aggtgtgccc tgatcggaa tcgtgagggaa actgagttacc 180
 207 agggggccct tggctcccaa cagccccagg ccctggggcg gacttggcac aggacccaag 240
 208 agggaaactgg ggcattgggg ggcggcaga 270
 210 <210> SEQ ID NO: 12
 211 <211> LENGTH: 255
 212 <212> TYPE: DNA
 213 <213> ORGANISM: Homo sapiens
 214 <400> SEQUENCE: 12
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 216 gtgttcttaa aacataaaat gctttccga ttccttctgt ccaggacaga aggttcttcc 120
 217 aggttagcacg ccaacagaac aagagactcc gatgacgcca gcttcaatga tgggccatc 180
 218 cagagaggga gagggtcatg gcacattcaa ccgcggcttc cagaggtttt gaaaaaggag 240
 219 ccttggggg cccag 255
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 222 <211> LENGTH: 358
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 224 <213> ORGANISM: Homo sapiens
 225 <400> SEQUENCE: 13
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 227 attatatgaa tactacaaggc atccaacaag aaataacattt cataattttt cataattttat 120
 228 agcaggaaac ccaaataaaac taaacttggc tgcctaaaat aattttgtctt aagggggata 180
 229 tgcctttgt aagtatcatg ctgataaaac cataaaaattt ctttttagagg aatgaggatt 240
 230 aaaatgaaat ttctttatga cacggaaaaa aataataattt tgcctaaaag tgtaaaattt 300
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 234 <211> LENGTH: 266
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 237 <400> SEQUENCE: 14
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 239 ggcatgtgca cattttctta gaaggacatg aatagtgtatc tggaggtacg gtggaggtca 120
 240 ggcatctaca gggtattcg aggaggaaca gattcaagct ttcggacgat cagtgttttgc 180
 241 taaatagcag catcatcaga tctaagacaa cattggacct ggcaggcct tttttttggg 240
 242 tggcattaaat tactccagat tcagac 266
 244 <210> SEQ ID NO: 15
 245 <211> LENGTH: 287
 246 <212> TYPE: DNA
 247 <213> ORGANISM: Homo sapiens
 248 <400> SEQUENCE: 15
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 250 ataacagtaa gcgaatcata caaatattga gaaaaaatgt tcctatgaat acatacatgt 120
 251 atattcttaa gagtagcgat caggagttt acaacaaatg taaagtgggtt ttctctaaag 180
 252 aatgctttct gacaggctt tgggttggaa atggacaggt aatcactgt cacataacag 240
 253 gtaagctaag aataacttct gttacccaaag tcatttgaac cctgtgg 287
 255 <210> SEQ ID NO: 16

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 06/10/2003
PATENT APPLICATION: US/09/964,824C TIME: 15:26:25

Input Set : N:\CrF4\06032003\1964824C.raw
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:7; N Pos. 331
Seq#:8; N Pos. 9,404
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Seq#:17; N Pos. 15,386
Seq#:21; N Pos. 90,258
Seq#:22; N Pos. 330,361,419
Seq#:23; N Pos. 371,416
Seq#:24; N Pos. 217,232,315,333
Seq#:27; N Pos. 26,199
Seq#:28; N Pos. 145,222,228
Seq#:51; N Pos. 92,118,152,153,235,237,238,239,244,245,248,263,270,284
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Seq#:54; N Pos. 346,368
Seq#:55; N Pos. 180
Seq#:56; N Pos. 27
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Seq#:59; N Pos. 481
Seq#:63; N Pos. 104,120,188
Seq#:64; N Pos. 44,146,265,285
Seq#:65; N Pos. 11,130,133,190,313
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Seq#:68; N Pos. 146
Seq#:69; N Pos. 187,223
Seq#:70; N Pos. 3
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Seq#:77; N Pos. 8,10,11,21,28,37,54,55,117,126,130,133,152,154,155,158,159
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Seq#:79; N Pos. 519,535
Seq#:80; N Pos. 575
Seq#:81; N Pos. 167
Seq#:90; N Pos. 274,366,371,458,463,496,504,510,519
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Seq#:125; N Pos. 515
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 06/10/2003
PATENT APPLICATION: US/09/964,824C TIME: 15:26:25

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Output Set: N:\CRF4\06102003\I964824C.raw

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Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 2

VERIFICATION SUMMARY
 PATENT APPLICATION: US/09/964,824C

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Input Set : N:\Crf4\06032003\I964824C.raw
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L:5 M:270 C: Current Application Number differs, Wrong Format
 L:29 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:240
 M:341 Repeated in SeqNo=1
 L:97 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:60
 M:341 Repeated in SeqNo=5
 L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:300
 L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
 M:341 Repeated in SeqNo=8
 L:265 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:60
 M:341 Repeated in SeqNo=16
 L:279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
 M:341 Repeated in SeqNo=17
 L:330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:60
 M:341 Repeated in SeqNo=21
 L:349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:300
 M:341 Repeated in SeqNo=22
 L:369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:360
 L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:180
 M:341 Repeated in SeqNo=24
 L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
 M:341 Repeated in SeqNo=27
 L:445 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:120
 M:341 Repeated in SeqNo=28
 L:743 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:60
 M:341 Repeated in SeqNo=51
 L:757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:0
 M:341 Repeated in SeqNo=52
 L:791 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:300
 M:341 Repeated in SeqNo=54
 L:805 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:120
 L:818 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0
 L:843 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:420
 M:341 Repeated in SeqNo=57
 L:877 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:480
 L:924 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:60
 M:341 Repeated in SeqNo=63
 L:938 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:0
 M:341 Repeated in SeqNo=64
 L:954 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:0
 M:341 Repeated in SeqNo=65
 L:976 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:360
 L:1002 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:120
 L:1018 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:180
 L:1030 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:0
 L:1045 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:120
 M:341 Repeated in SeqNo=71
 L:1121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77 after pos.:0
 M:341 Repeated in SeqNo=77

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/964,824C

DATE: 06/10/2003

TIME: 15:26:25

Input Set : N:\Crf4\06032003\I964824C.raw
Output Set: N:\CRF4\06102003\I964824C.raw

L:1147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:360

L:1167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:480

L:1188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:540